A Deſcription of the Machine for the Fireworks, with all its Ornaments: And a Detail of the Manner in which they were exhibited in St. *James*'s Park on *Thurſday* the 27th of *April*, 1749, on Account of the General Peace, ſigned at *Aix la Chapelle*, *October* the 7th, 1748.

Publiſh'd by Authority of his Majeſty's Board of Ordnance.

A Deſcription of the Machine.

THIS Machine was ſituated 500 Feet from his Majeſty's Library, and repreſented a magnificent *Doric* Temple, from which extended two Wings terminated by Pavillions.

The Machine was 114 Feet high to the Top of his Majeſty's Arms, and 410 Feet long. It was invented and deſign'd by the Chevalier *Servandoni*, and all the Framing was perform'd by Mr. *James Morris*, Maſter Carpenter to the Office of Ordnance.

The Ornaments of this Machine were all in Relief, and adorned with Frets, Gilding, Luſtres, Artificial Flowers, Inſcriptions, Statues, Allegorical Pictures, *&c.*

The Inſcriptions were as follows:

On the Pedeſtal of Peace in the Center,

PAX. REDIVIVA.
AN. MDCCXLVIII.
Peace reſtored in the Year 1748.

In the Frieze over the Center Arch,

GEORGIVS: II: REX.

which appeared tranſparent during the whole Performance of the Firework.

On the Right Side of the Machine,

REDINTEGRATA.
EVROPAE. PACE.
SECVRITATE. FOEDERVM.

STA-

STABILITA.
COMMERCIO.
FELICITER. RESTITVTO.
VB. AVSPICIIS. OPT. PRINC.
LAETATVR.
S. P. Q. B.

The Reſtoration of Peace to Europe, *the Security of the Faith of Treaties, the happy Re-eſtabliſhment of Commerce under the Auſpices of the beſt of Kings, is the Joy of the* Britiſh *Senate and People.*

On the Left-ſide of the Machine,

HINC.
PRINCIPEM.
BELLO. ACCINGIT.
LIBERTATI. DEVOTA.
FORTITVDO.
ILLINC.
PACIFICVM. OSTENDIT.
SALVTI. OMNIVM.
CONSVLENS.
CLEMENTIA.

On one Hand Valour ſacred to Liberty prepares the Prince for War. On the other, Clemency conſulting the common Good, ſhews him ſtudious of Peace.

On the Attick in the Middle of the back Front,

GEOGIO. II. REGI. OPT.
AVCTORI. SALVTIS.
LIBERTATIS. VINDICI.
FVNDATORI. QVIETIS.
PATRI. PATRIAE.

To the Guardian of our Safety, the Aſſertor of our Liberty, the Eſtabliſher of our Tranquillity, the Father of his People, George *the Second.*

The Statues which adorn it are in Number twenty-three, *viz.*

On the firſt Half-pace of the great Stair-caſe on the Right Hand is the Figure of *Tame*; on the Left *Iſis*, each reclining on an Urn.

In

In the Center of the Temple, ſeated on an Altar, was the GODDESS of PEACE, holding an Olive-branch, and ſupported on the Right by *Neptune*, on the Left by *Mars*.

Theſe five were caſt in Plaiſter of *Paris*.

In the Front were four Statues, *viz.*

Ivaſtiti. Fortitudo. Temperantia. Prudentia.

On the Right-end, Religio. Conſtantia.

On the Left-end, Honor. Clementia.

In the Back-front, Fides. Vigilantia.

On the Attick above the Cornice in the Front, Jupiter. Ceres. Diana. Apollo.

In the Back-front at the Angles, were, Mercurius. Minerva.

Theſe Statues were all deſigned by Chevalier *Andrea Caſſali*.

The Pictures in the Front of the Machine were eighteen, each painted double: They at firſt appear'd as Marble Baſſo Relievos, and after the Firework was play'd off they were removed by Machinery, and diſcovered Pictures repreſenting the ſame Subject in Colours, which were rendered tranſparent by a great Number of Lampions.

The great Picture over the Cornice in the Center of the Machine was twenty eight Feet by ten. It repreſented his MAJESTY giving PEACE to BRITANNIA. The Attendants on Peace, were *Plenty*, *Riches*, *Felicity*, *Trade*, and *Commerce*. The Attendants on Britannia were *Liberty*, *Agriculture*, and the *Arts* and *Sciences*.

On the Right of this, below the Entablature, was a Picture of fifteen Feet by eight, repreſenting the Return of Neptune: He was riding on the *Ocean* in a Carr drawn by *Sea-Horſes*: His Right-hand holding a Trident, and his Left ſupported a Globe; He was conducted by the *Genius* of Peace, and attended by *Tritons*, *Sea-Nymphs*, &c. Companion to this on the Left of the central Arch, was the Return of Mars: He was ſeated on a Carr drawn by three Lions, the Arms of *England*, and was conducted by Fame, with an Olive-branch, who proclaim'd the *Peace*. The Carr was followed by the *Army*.

Theſe three were deſigned by Chevalier *Andrea Caſſali*.

On each ſide of theſe two laſt Pictures, was a Feſtoon of Arms and Military Inſtruments.

Theſe with his Majeſty's Arms at Top, with the Trophies on each Side, and the Star of St. *George* and of St. *Andrew*, were the Performance of Monſieur *Cleremont*.

Th

The Medaillon on the Right-hand was Britannia joining Hands with *France:* The Legend,

CONCORDIA. REDVX.

Exergue, Brit. Gall.
Concord Renew'd. Britain. France.

Below this was the Figure of *Liberty.* Libertas.

On the Left was a Medaillon repreſenting Britannia joining Hand with *Spain:* The Legend,

SALVS. MVTVA.

Exergue, Brit. Gall.
Mutual Benefit. Britain, Spain.

Below this was the Figure of *Plenty.* Copia.

Theſe with the two *Genii* on each Side the central Arch, was deſigned by Signor *Soldi.*

The following Pictures were not rendered tranſparent, *viz.*

The *Genii* of Peace burning Heaps of Arms on each End of the Machine,

Which with the Medaillons, and painted Feſtoons within, were by Signor *Soldi.*

The Trophies of Arms at Top of the Back-front, by Monſieur *Cleremont.*

DIRECTION of the FIRE WORKS.

After a grand Overture of Warlike Inſtruments, compoſed by Mr. *Handel,* in which eighteen ſmall Cannon were fired, a Signal was given by firing a Sky Rocket for the Commencement of the Firework, which was opened by a *Royal Salute* of 101 Braſs Ordnance of the following Nature, *viz.* 6 Pounders 71, 12 Pounders 20, 24 Pounders 10.

The *Salute* being ended, the Firework began, as follows.

I.

120 Large Honorary Rockets. 96 Rockets in two Flights. 12 Mortars with Air Ballons. 12 Caduceus Rockets. 12 Girandole Rockets.

Theſe fired together; Two regulated Pieces, each conſiſting of four Mutations, *viz.* I. A large fixed Sun. II. A Star of ſix Points, and between each Point a Ray. III. A Star of ten Points. IV. A compound Figure conſiſting of Points and Rays. Four large double Wheels moved by four Fires. Twenty Tourbillons.

II.

II.

120 Large Honorary Rockets. 96 Rockets in two Flights. 14 Mortars with Air Ballons, 12 Caduceus Rockets, and 12 Girandole Rocquets.

Theſe fired together; Two regulated Pieces conſiſting of vertical Motions, communicating to fixed Fires, each having Four Mutations, *&c.*

I. A vertical Sun, which communicated to II. A fixed Star of ſix Points, with ſix lucid Stars at the interior Points of the great Star. III. A large vertical Sun moved by double Fires, which communicates to IV. A beautiful Figure compoſed of a great Number of brillant Stars. Four large double Wheels moved by four Fires.
Twenty Tourbillons.

III.

120 Large Honorary Rockets. 192 Rockets in four Flights, 4 Mortars with Air Ballons. 12 Mortars with Air Ballons illuminated. 12 Caduceus Rockets. 12 Girandole Rockets.

Theſe fired together; Two regulated Pieces, each conſiſting of a large brillant Wheel, whoſe Center is compoſed of a ſteddy white Fire; from whence proceeded ſix *Archemedean* Screws, that formed as many Cones.— Above theſe were ten Wheels of *Frueli*, that turned vertically and horizontally, ſo as to form one vaſt Globe of Fire, on the Area of which were ſeveral ſmall Globes of a very white Fire. Four large quadruple Wheels moved by eight Fires.
Twenty-four Tourbillons.

IV.

120 Large Honorary Rockets. 96 Rockets in two Flights. 400 Rockets in two Flights. 18 Mortars with Air Ballons illuminated. 12 Caduces Rockets. 12 Girandole Rockets.

To be fired together; Three regulated Pieces; That in the Center was a Machine, from whence the Fire iſſued out, and retired within, twelve Times alernately. When without, it formed a Glory; when within, it compoſed a Star of eight Points, and then changed to a Royal brillant Wheel, whoſe Fire was thirty Feet in Diameter, and moved by twelve Fires. On each Side of this, was a Caſcade of twenty-four Feet high, of three Mutations each, *viz.* 1. Four Falls of Fire of eight Feet each. 2. A magnificent *Jet de feu* of forty Feet high. 3. A Pyramid of thirty Feet high, compoſed of Wheels with bright Planes in their Center, which terminate by

projecting

projecting an hundred illuminated Globes from as many Pots de Brins.

1 Mortar of nine Cylinders, with one large Air Ballon in each. 600 Rockets in two Flights.

V.

141 Large Fountains, which form'd all the Outlines of the Machines, and play thirty Feet high; at the ſame Time the Vaſes on the Pavillons appear'd in Fire. 400 Pots de Brins. 192 Rockets in four Flights.

VI.

68 Pyramids of brillant Fire, ſupporting fixed Suns of a red Fire, placed on the principal Lines of the Machine. 800 Pots de Brins. 192 Rockets in four Flights.

VII.

130 Pots d'Aigrettes with 260 Gerbes, which fired together and formed ſemicircular Arcades with Jets riſing between. Theſe extended along the principal Lines of the Machine, and terminated with 130 Exploſions of Serpents, Rains, and Stars. 1200 Pots de Brins. 1 Mortar of nine Cylinders, with one large Air Ballon out of each. 288 Rockets in ſix Flights.

VIII.

24 Figured Pieces on the Terraces and Top of the Machine, *viz.* 10 Stars of eight Points, with a fixed Sun with curved Rays behind it Theſe fired together, and afterwards communicated to 10 Double Wheels. 4 Pieces of a complicated Form, conſiſting of diagonal Wheels, and vertical Globes. 2 Large quadruple Wheels moved by ſix Fires each. 4 Large double Wheels moved by four Fires, with Planes of bright Fire in their Center. 4 Single Wheels moved by one Fire, with bright Planes as before. 1600 Pots de Brins. 384 Rockets in eight Flights.

IX

19 Large Sheets of Fire from the principal Parts of the Machine, compoſed of Gerbes, and from each aroſe a large Fountain. 2000 Pots de Brins. 384 Rockets in eight Flights.

X.

100 Vertical Suns, that covered the Machine. 5000 Marrons in Battery, which continued firing to the End of the Fireworks. 2800 Pots de Brins. 1 Mortar of nine Cylinders, with one large Air Ballon out of each. 480 Rockets in ten Flights.

XI. Theſe

XI.

These fired together; The grand fixed SUN on the Top of the Machine, compoſed of three Circles of Rays, whoſe Diameter of Fire was ſeventy Feet. In its Center appeared

VIVAT REX

in bright Fire, and all its Rays terminated with Reports. On each Side of this, and firing at the ſame Time, three Circles of Rays; their Diameter of Fire was fifty Feet each, and their Rays likewiſe terminated with Reports. Behind the Statue of Peace a large *Glory*; and a figured Piece compoſed of Wheels, within the Apertures on each Side the Temple; with the Cyphers of G R before them. Two large Trees of Fire on each Terrace forty Feet high, which terminated with Reports; and on each Pavillon a Pyramid of Fire, compoſed of Gerbes forty Feet high. Theſe terminated by Exploſions of Stars, Rains, and Serpents from fifty Pots d'Aigrettes.

576 Rockets in twelve Flights. 3200 Pots de Brins.

XII.

A grand Girandole from the Top of the Machine, conſiſting of ſix thouſand Rockets headed with Stars, Rains, and Serpents, which formed one Flight.

XIII.

The Machine becomes illuminated; the allegorical Pictures, which appeared in Baſſo Relievo, were removed by Machinery, and diſcovered the ſame Subjects in tranſparent Colours, and the Area before the Machine was beautifully illuminated with Variety of Deſigns. Theſe continued burning a conſiderable Time.

All the various Parts of this great Work were performed by the Direction of *Charles Frederick* Eſq; Comptroller; and Capt. *Thomas Deſaguliers*, Chief Fire Maſter of His Majeſty's Royal Laboratory.

The Fire, with its innumerable Communications, were executed by the Royal Train of Artillery, and the Signori *Gaetano Ruggieri*, and *Giuſeppe Sarti* of *Bologna*.

The following is an exact Account of the Number and different Sorts of Fire-works which were exhibited, *viz.* 482 Honorary Rocquets, of one, two, four, and ſix Pounds weight, 10,072 Rockets for Flight, of a Quarter and half Pound each; 48 Caduceus Rocquets of two Pounds; 48 Girandole Rocquets of two Pounds; 87 Air Ballons; 88 Tourbillons; 21 Regulated Pieces; 30 Figured Pieces, 180 Pots d'Aigrettes;

12,209

12,200 Pots de Brins; 21 Caſcades 136 Vertical Suns and Wheels; 71 Fixed Suns; 160 Fountains; 260 Gerbes; 3700 Lances; and 5000 Marrons; beſides the 101 Pieces of Cannon.

His Majeſty and the Duke of *Cumberland*, attended by the Dukes of *Montague*, *Richmond*, and *Bedford*, and ſeveral others of the Nobility, were at the Library to ſee the Fireworks, from whence they walked about Seven o'Clock into the Machine, after viewing which his Majeſty made a preſent of a Purſe to the Officers employed in the different Branches. The whole Band of Muſick performed at his Majeſty's coming and going, and during his Stay in the Machine.

About half an Hour after Nine, in diſcharging ſome of the Works from the Pavillion at the Left Wing of the Building, it ſet Fire to the ſame, and burnt with great Fury, ſo that that, and two of the Arches, were burnt to the Ground; and had not the Carpenters made a Breach by cutting away two Arches, and removing the Timber, and for the Aſſiſtance of ſome Fire-Engines which were in Readineſs, in all Probability the whole Fabric would have been conſumed. Meſſengers were going to and from his Majeſty all the Time of this Misfortune; and when it was brought under, a Preſent was made to the moſt diligent in ſtopping the Flames.

During the Fire the grand Rockets and the Sun were diſcharged; but this Accident prevented the exhibiting ſome of the moſt conſiderable of the Fireworks.

About Eleven the whole Building was illuminated, and continued ſo till between Two and Three o'Clock. His Majeſty and the Royal Family withdrew about Twelve.

By one of the large Rockets darting ſtrait forward into the Scaffold next the Library, it ſet Fire to the Cloaths of a young Lady, which would have ſoon deſtroyed her, but ſome Perſons preſent having the Preſence of Mind to ſtrip her Cloaths off immediately to her Stays and Petticoats, ſhe eſcaped with only having her Face, Neck and Breaſt, a little ſcorched.

F I N I S.